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11038

Approved For Release 2003/05/14 : CIA-RDP78B05171A000100020024-1

NPIC/TSSG/DED-1454-68
16 December 1968

MEMORANDUM FOR: Chief, Test & Evaluation Branch, ESD/TSSG

SUBJECT : Request for Test Targets and Materials in Support of the
High Precision Stereo Comparator Program, NPIC Project
#11038

25X1 1. [] has requested that NPIC specify and make available, prior to 20 January 1969, the test targets and material that will be used in the final acceptance test of the High Precision Stereo Comparator. Although the instrument is not due to be delivered to NPIC until November of 1969, there are many tests to be performed at the optical subcontractors and the prime contractors' facilities prior to this date.

2. The technical monitor feels that this is a reasonable request and that a great deal of confusion and loss of time can be avoided by all concerned agreeing to use standardized targets and materials throughout the testing. Examples of where the targets and material will be used are as follows:

25X1 a. [] checking out optical components and subsystems as
25X1 they are completed by []

25X1 b. [] running the final acceptance tests for the optical
25X1 system at [] in August to September 1969.

25X1 c. [] checking out the optical system after it has been
integrated into the comparator system at [] in Sept-
ember, 1969. 25X1

25X1 d. IEG/PHD, TSSG/ESD/T&EB, and TSSG/DED performing pre-
acceptance tests at []

e. The contractor and the customer checking out the optical system after installing the comparator at NPIC.

f. TSSG/ESD/T&EB running final acceptance tests at NPIC.

3. It is requested that the T&E Branch of TSSG/ESD specify and provide unclassified targets and materials to perform the following tests on the optical system:

Declass Review by
NIMA/DOD

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GROUP 1
Excluded from automatic
downgrading and
declassification

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- a. Resolution targets (if on glass plates keep thickness less than 3mm).
 - b. Anamorph targets or reticles.
 - c. Materials to test zoom settings.
 - d. Reticles to test degree of rotation.
 - e. Target to check shape of the reticle dot and affect of anamorph stretch on the dot.
 - f. Distortion target or grid to determine the distortion at various points in the field of view.
 - g. Material to determine the alignment of the left and right leg of the optical path. Targets to determine how much the recticle moves or wobbles due to zoom or rotation.
 - h. Test material to check out the computer program accuracy in setting the optical elements.
4. Suggestions and materials to perform any other tests deemed necessary ESD/T&EB will also be welcomed.

TSSG/DED/R&DB-II

Distribution:

Orig - Addressee

1 - TSSG/DED

✓ 2 - TSSG/DED/R&DB-II

NPIC/TSSG/DED/R&DB-II/ (16 Dec 68)

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